

Architectural
SOLID CORE WOOD
DOORS



- INTERIOR and EXTERIOR DOORS
- SOUND INSULATING DOORS
- SPECIAL PURPOSE DOORS

**HARDWOOD PRODUCTS
CORPORATION**

NEENAH • WISCONSIN

Manufacturers of Architectural Doors



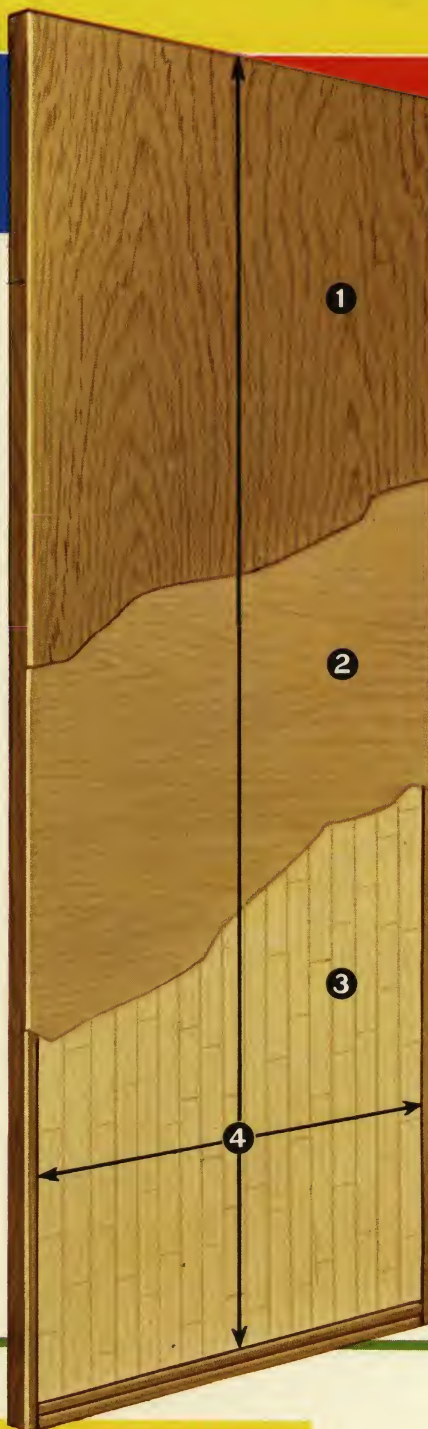
Solid Core Flush Doors

DOORS OF LASTING BEAUTY

...for Schools, Hospitals, Hotels, Institutions, Clubs, Churches, Business and Industry

Hardwood Products Corporation Doors exemplify the finest in advanced solid core construction. They are sturdily strong, most permanent and have no superior for the functional, heavy-duty type of performance required in school, hospital, institution and public building installations. Hardwood's doors provide privacy, last the lifetime of the building, have excellent fire-retarding qualities and provide more satisfactory service all around. Being of *solid core* construction they withstand hard knocks and bumps without damage — thus, cost less to maintain and refinish. In addition, their solid core wood construction permits installations of kick plates, hidden door closures and special hardware—as well as window lights on louvers without costly and special prefabrications.

Red Oak



CONSTRUCTION

Master-Flush and Standard-Flush Doors

1 Hardwood Products Corporation MASTER-FLUSH solid wood core doors are faced with 1/8" thick sawn veneers of solid wood.

2 Veneer cross-banding of 1/12" thickness between finish face and core provides additional strength — makes a completely glued-up strong and stable 5-ply solid core door.

3 Random length vertical wood staves, glued and permanently press-bonded together make up a solid mass core of exceptional strength and dimensional stability.

4 Edge strips on all four sides are tongue and grooved into the core and into each other on all four edges—strips are doubled top and bottom. See Architectural Specifications, page 3.

Master-Flush Door Lifetime Guarantee

The Hardwood Products Corporation unconditionally guarantees its MASTER-FLUSH doors against delamination, warping, twisting or manufacturing defects for the life of the installation if properly stored, installed, finished and maintained. If any MASTER-FLUSH door fails to meet these standards, such door will be replaced without charge, including all labor costs of rehanging and refinishing by Hardwood Products Corporation, Neenah, Wisconsin.

Custom-made to Individual Job Orders

Hardwood Products Corp. Doors are custom-made for your job—and you can specify any type with full confidence that they will meet your specifications. All veneers for each job are carefully chosen for matching wood grain. Standard doors as well as special sizes and styles are all custom-made to individual job orders.

MASTER-FLUSH

*Solid Core
Flush Doors*

FOR INTERIOR-EXTERIOR USE

Master-Flush doors are the result of long research and experience. They are made to withstand extraordinary abuse and fulfill the demand for a single construction design that meets all installation requirements for both interior and exterior use. Master-Flush doors are guaranteed equal or superior to any other wood door, regardless of cost or competitive claims. They are manufactured in accordance with "Type C" solid core doors contained in AWI Brochure No. 5 (Revised).

FACE VENEERS

Face veneers of Master-Flush Doors are $\frac{1}{8}$ " in thickness before sanding and are available in: —

- Natural Birch
- Natural Gum
- Selected Red Gum
- Plain Red Oak
- Plain Philippine Mahogany
- Plain African Mahogany
- Northern White Pine
- Ponderosa Pine

Other veneers are available upon request. Please refer to page 9 for additional data on veneers for door facings that are carried in stock for prompt door manufacture, order fulfillment and delivery. Write us for information on availability of any veneer faces not listed.

ARCHITECTURAL SPECIFICATIONS

All doors shall be MASTER-FLUSH construction, 5-ply glued-up random length vertical stave core, $\frac{1}{12}$ " exposed cross band, $\frac{1}{8}$ " sawn face veneers of — (indicate wood type), hot plate press bonded. Vertical edge strips shall be one piece and of

specie to match face veneer. Top and bottom edge strips shall be double thickness hardwood with all four edge strips tongue and grooved into the core and into each other, as manufactured by Hardwood Products Corporation of Neenah, Wisconsin — or equal, as approved in writing by the architect.

EXTERIOR DOOR SPECIFICATIONS

Exterior doors shall be MASTER-FLUSH doors as manufactured by Hardwood Products Corporation, with five-ply glued-up vertical stave core, $\frac{1}{12}$ " exposed waterproof glued cross-banding, and $\frac{1}{8}$ " waterproof glued sawn face veneers, hardwood edge strips all four edges, or equal, as approved

in writing by the architect. The bottom of all light openings shall have copper flashing installed by the manufacturer. Copper Cap for the top of the doors shall be furnished flat by the manufacturer and installed by the hanging carpenter after the doors have been fitted to the opening. Flashing at the bottom of doors shall not be permitted. The door manufacturer shall preservative and water repellent treat all exterior doors by complete immersion in Woodlife or equal product, and:

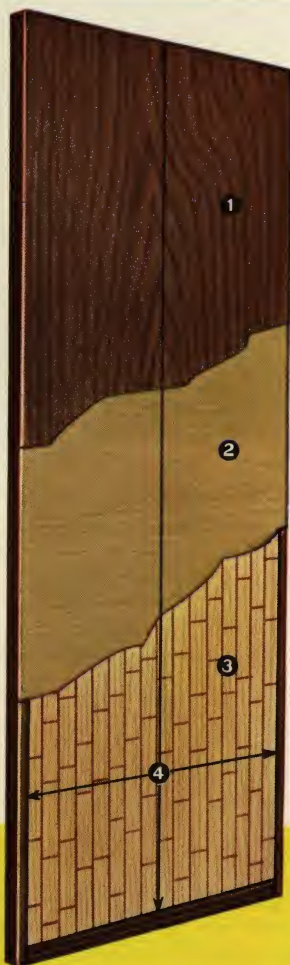
- a. On doors to be painted, the face veneer shall be $\frac{1}{8}$ " Sawn Wisconsin Maple, Northern White Pine, or African Mahogany. The door manufacturer shall apply one coat of exterior aluminum primer for wood (if African Mahogany is furnished a filler coat shall be applied in addition), and one coat of exterior trim paint of the color selected by the architect.* Finish shall be further completed by the painting contractor by applying not less than two coats of exterior trim paint on both faces and all four edges.

- b. On doors for stain or natural finish, the face veneer shall be $\frac{1}{8}$ " sawn, the door manufacturer shall be furnished suitable samples and shall fill and/or stain, as may be required. Door manufacturer will apply coat of sealer and coat of spar varnish, sanding between coats. The final coat shall be for exterior use and applied by the painting contractor to both faces, and two coats to all four edges, after the doors are fitted and prepared for hardware.

*It is suggested that the architect furnish the door manufacturer a color sample slightly off the final desired color to facilitate inspection of further finishing at the job.

STANDARD-FLUSH

Solid Core Flush Doors



Black Walnut

FOR INTERIOR-EXTERIOR USE

Standard-Flush Doors are designed (1) to meet decorative requirements for highly figured cabinet woods which are only available in thin veneers and (2) to furnish the inherent advantages of solid core construction in stock wood veneers where utmost economy is essential. They have the same core construction as the Master-Flush Door but are faced with thinner veneers. Note the specie selections available.

The STANDARD-FLUSH door embodies the same solid core construction as the MASTER-FLUSH door shown and described on page 2—the only difference being face veneer thicknesses. On STANDARD FLUSH doors they are 1/20" and 1/28" thick as listed at right.

FACE VENEERS

Face veneers of Standard-Flush Doors furnished in several thicknesses dependent upon specie and grain figure.

1/20" FACE VENEERS INCLUDE: — 1/28" FACE VENEERS INCLUDE: —

- Natural Birch
- Selected White or Red Birch
- Natural or Selected Red Gum
- Plain Red Oak (Rotary Cut)
- Natural Hard Maple
- Selected White Hard Maple
- Northern White Pine
- Comb Grain White Oak
- Plain Walnut
- Quartered Walnut
- African Ribbon Stripe Mahogany
- Plain Philippine Mahogany (Lauan)
- Sliced Plain White Oak
is available in 1/24" veneer

Other veneers are available upon request.

ARCHITECTURAL SPECIFICATIONS

All doors shall be STANDARD-FLUSH construction, 5-ply glued-up random length vertical stave core, 1/12" exposed cross band, _____ (thickness) face veneer of _____ (Rotary or Sliced) _____ (wood type) face veneer, hot plate press bonded vertical edge strips shall be one piece and of

specie to match face veneer. Top and bottom edge strips shall be double thickness hardwood with all four edge strips tongue and grooved into the core and into each other, as manufactured by Hardwood Products Corporation of Neenah, Wisconsin — or equal, as approved in writing by the architect.

CONSTRUCTION DETAILS — Page 10

Finishing Specifications For All Hardwood Products Corporation Doors

FINISHING OF DOOR: Both for control of quality of finish and for protection of the door prior to hanging, it is recommended that architectural specifications require the manufacturer to apply preliminary coats (but not the last coat) at his plant prior to shipment. Final sanding, removal of soiled or abrasion spots etc., occurring in transit and handling, and application of final coat shall be performed by the appropriate contractor after delivery by manufacturer. If doors are shipped unfinished, it should be noted that while

they are carefully belt sanded, this does not mean they will be ready for painter's finish on arrival. Specifications should therefore require the appropriate contractor to inspect, re-touch, hand clean and spot-sand as may be necessary to remove soiled or abrasion spots occurring in transit and with handling.

PREPARATION FOR LOCKS AND HINGES: Hardwood Products Corporation can prepare the door for locks and hinges, if desired. Application of the hardware by others.

STANDARD/SPECIAL

Solid Core
Flush DoorsSTRAIGHT-FLUSH
DOORSFOR INTERIOR AND
EXTERIOR USE

1 Standard 1/4" thick face veneers sawn from solid lumber as listed below.

2 Solid core of random length horizontal wood staves are glued and permanently press-bonded together to form panels and cross rails of equal width as illustrated.

3 Built-up vertical stave stiles are tongue and grooved into panels and rails. All rails dowelled and glued into stiles.

4 Vertical edge strips same specie as face veneer. Hardwood top and bottom edge strips on top and bottom rails only.

FACE VENEERS

1/4" FACE VENEERS INCLUDE: —

- Northern White Pine
- Ponderosa Pine
- Plain Red Oak
- Natural Gum
- Selected Red Gum
- Natural Birch
- Plain African Mahogany

Other veneers are available upon request.

In addition to Solid Core Flush and Sound Insulating doors, Hardwood Products Corporation of Neenah, Wisconsin produces many different types of functional purpose doors to meet specific requirements in buildings of every type and description. See page 8.

African Mahogany

STURDY-FLUSH
DOORSFOR INTERIOR AND
EXTERIOR USE

1 Standard 1/8", 1/20" and 1/28" face veneers as described below.

2 Cross-banding of 1/12" thickness between finish face and core provides additional strength and stability in a completely glued up 5-ply solid core door.

3 Solid, framed core made up of random length wood staves glued and permanently press-bonded and dowelled together. Vertical stave panels and stiles, horizontal stave rails. Panels, stiles and rails dowelled and tongue and grooved as shown.

4 Vertical edge strips same specie as face veneer. Hardwood top and bottom edge strips on top and bottom rails only.

FACE VENEERS

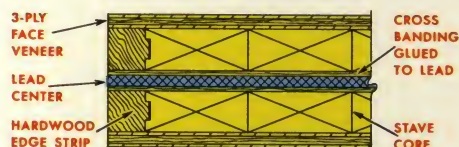
1/8" Face Veneers are available in the same species of wood as those listed for STRAIGHT-FLUSH DOORS in 1/4" veneers.

1/20" and 1/28" Face Veneers are available in the same species of wood as those listed under STANDARD FLUSH DOORS described on page 4.

Red Birch

SPECIAL PURPOSE DOORS

X-RAY LEAD-LINED DOORS X-Ray laboratories, particularly in hospitals, require lead shielded doors to prevent leakage of the rays. This calls for lead lined doors in which



lead sheeting is complete from edge to edge. Hardwood Products research has developed a safer construction which eliminates the need for bolts, thereby making it impossible to leak through, either by by-passing the lead or by angular attack.

GROUNDED DOORS

Other special hospital, laboratory and industrial door needs are

met with Hardwood Products "Grounded Doors." For use in operating rooms, laboratories handling highly volatile fluids and explosive gases, and in oil and hydro-carbon refineries, etc., they are an important safety factor. These doors, fitted with flat braided copper wires for grounding to hinges, locks and other hardware reduce the danger of flash fires or explosions resulting from static sparks.

AUDITORIUM DOORS

Large size auditorium doors and folding partitions can be built to architect's specifications. These can be up to 5' wide and 25' high. Hardwood Products construction assures a firm, solid door that will withstand many years of service. These doors are built on Special order only.

PANEL DOORS

Although veneered paneled doors are not in great demand today, we can produce them to your needs when the job requires.

SOUND INSULATING

Stiles and rails form a substantial framework in which the panels are resiliently mounted.

A Resilient Mounting of Neoprene giving the appearance of an ebony inlay, supports the panel and dampens its motion relative to the framework. This effectively seals the panel in the framework and reduces the transfer of panel vibration to the frame.

Any standard hardware may be used. No special hardware is required.

Specially Fabricated wood panel mechanically dampened to reduce the panel vibration picked up from the sound waves.

The stiles, rails and panel can be veneered with most kinds of wood.

Sound volume passage is determined by the insulating value of the weakest acoustic area such as ceilings, walls, floors and duct work. For doorways, scientifically designed and constructed HPC Sound Insulating Doors are unusually high in acoustic insulating value. Sound does not pass through a solid structure but sets up vibrational energy which carries from one side to the other. Because of this, one of the most effective methods for arresting sound transmission is to isolate the two barrier faces with an unfilled air space to prevent opposite surfaces from vibrating in unison. It is this basic structural principle (see detail below) that makes our doors most efficient sound barriers.

Considerable confusion exists in evaluating Sound Insulating Doors. The chart opposite, shows results of tests made on identical doors (HPC No. 40) at three recognized laboratories by qualified professional physicists and acoustical engineers. All tests were conducted in accordance with the standards of ASTM E 90-55 and ASA Z 24.19-1957. None of these tests are invalid, even though they differ—the results vary because of different techniques and facilities used. Therefore, it is essential when comparing Sound Insulating Doors to be certain:—

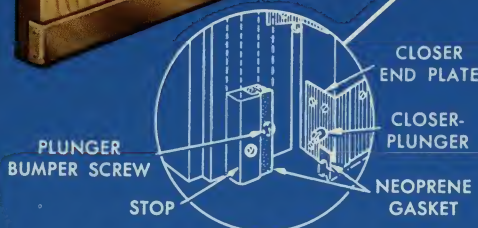
- 1—That test reports of the same laboratory be compared.
- 2—That each door was installed and tested in the same manner as a caulked panel, or as a field installation with manufacturers' own sealing devices only.
- 3—That the quality of the door is evaluated to be certain that it, with its own sealing devices, will retain its structural stability and continue to function as laboratory predicted.

DOOR WEIGHTS AND HARDWARE

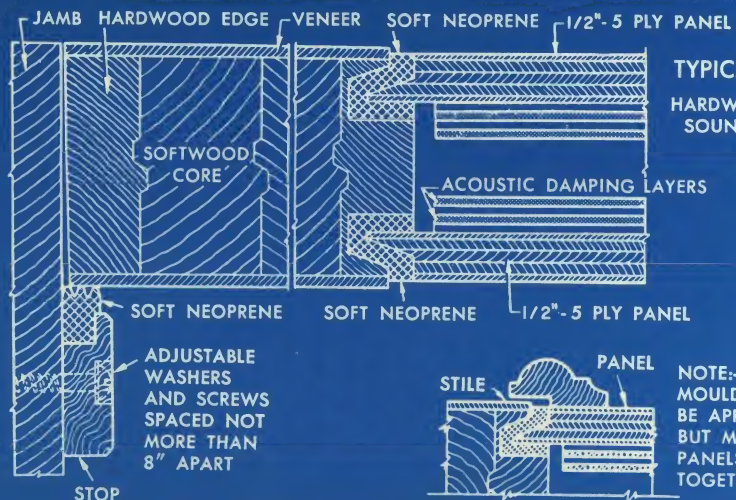
The weight of 40 Decibel Sound Insulating Doors is approximately 7 lbs. per sq. foot—the 43 decibel doors approximately 8 lbs. per sq. foot and the 35 decibel doors, approximately 4 lbs. per sq. foot.

Hardware to be used should consist of three butts not smaller than 5 in. by 5 in.—ball bearing preferred but not essen-

tial. Latch on lock sets can match similar building hardware but should have spindles long enough for the door thickness. Because of the weight of these doors, the four joints where stiles and rails meet are reinforced with dowels. No hardware should be used which requires cutting these dowels or otherwise weakening this area.



Automatic surface mounted closing device effectively seals threshold crack when door is closed. (Center mounted closures leave open voids at bottom corners of door). HPC's device releases instantly as door opens without any drag on threshold. Brushed bronze finished, (Color #U.S. 10) it has the appearance of a narrow kick plate—on top side of door only.



TYPICAL SECTIONS
HARDWOOD PRODUCTS
SOUND INSULATING
DOORS

MOULDINGS APPLIED TO DOOR



SECTION THRU DOOR AND STOP

NOTE:—
MOULDINGS MAY
BE APPLIED ON DOOR
BUT MUST NOT TIE
PANELS AND STILES
TOGETHER

THE DECIBEL SCALE is a logarithmic one which provides a practicable expression of sound impact on the human ear. The same number of decibels represent a greater and greater range of sound intensity as

the sound intensity increases. For practical purposes, a few decibels may represent the margin between tolerable and intolerable noise levels—the difference between success and failure in sound insulation.

HARDWOOD PRODUCTS CORPORATION

16c
Ha

Solid Core Flush Doors

LABORATORY TESTS FOR HPC DOOR NO. 40 (2½" thick)

TESTING LABORATORY	SOUND REDUCTION (Panel Tests*)	SOUND REDUCTION (Installation Tests**)
Geiger & Hamme Ann Arbor, Michigan	42 Decibels	40 Decibels
National Bureau of Standards Washington, D. C.	41 Decibels	36 Decibels
Riverbank Laboratories Geneva, Illinois	38 Decibels	34 Decibels

* Perimeter Sealed with caulking compound

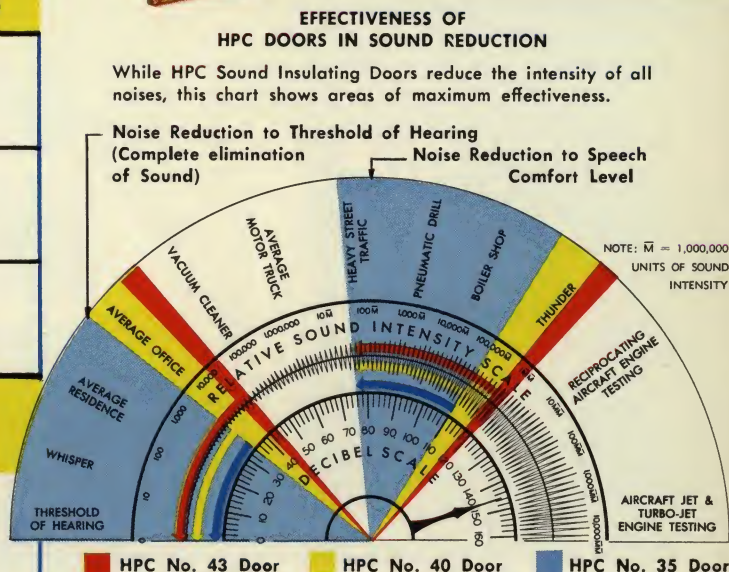
** Perimeter Sealed with HPC gasketed stops and automatic threshold closer

HPC No. 35 Door (1¾" thick) has a sound reduction of 34 decibels.

HPC No. 43 Door (3" thick) has a sound reduction of 44 decibels. Both doors tested as a panel by the National Bureau of Standards.

LIGHT OPENINGS—Recent tests by the

Riverbank Laboratories demonstrate that our HPC No. 40 door with a 20" x 24" light opening with glass installed per our detail shown below, has a sound loss of ½ of one decibel over the value of the door itself. For practical purposes, this may be considered as no loss.



DOORS OF 3 SOUND REDUCTION RATINGS. To meet the wide range of acoustical needs, HPC Sound Insulating Doors are made in three different laboratory certified ratings. Laboratory measurement of sound reduction of each door is the average over a range of sound frequencies from 125 to 4000 cycles with doors hung and sealed as installed on the job.

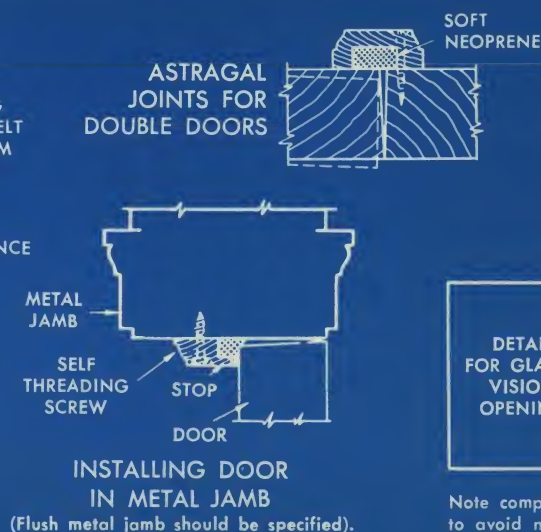
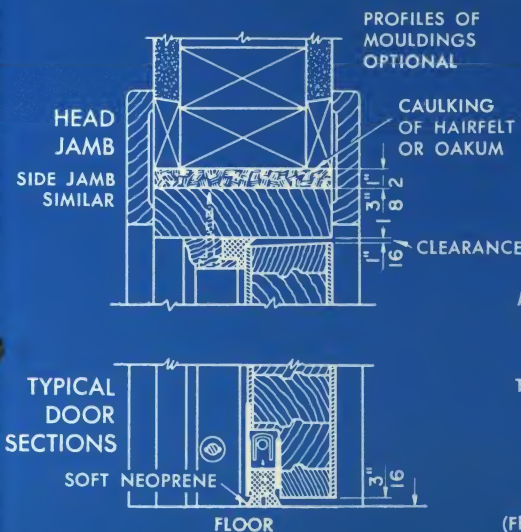
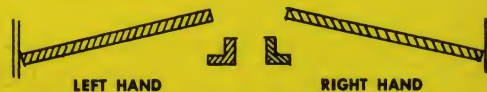
SUGGESTED SPECIFICATIONS

Sound Insulating Doors, as indicated on the plans are to be Hardwood No. — as furnished by Hardwood Products Corporation, to provide a sound reduction of — decibels; or doors of equal sound insulating efficiency as certified by laboratory tests. Doors are to be furnished complete with

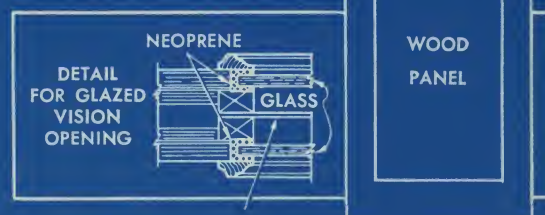
special stops, stop adjusters, gaskets and automatic threshold-sealing device. Door veneers to correspond with woodwork in adjoining spaces. Jambs, trim and hardware to be furnished by others under separate contracts.

In specifying the proper door, consideration must be given to the sound reduction provided by adjacent wall areas. Write for specific details.

WHEN ORDERING indicate swing of door by sketch as indicated below. Direction of swing is determined by position of hinges when facing door from stop side of opening. Doors are stocked in standard sizes, in natural Birch Veneers. Special veneers and sizes available on order.



RECOMMENDED
MAXIMUM LIGHT
OPENING IS
24 x 24". MINIMUM
DISTANCE FROM
EDGE OF LIGHT TO
EDGE OF DOOR IS 8"



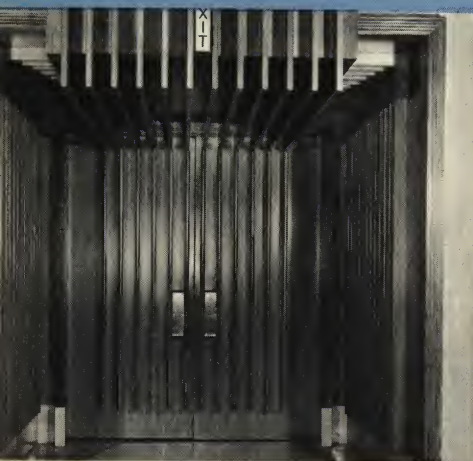
Note complete separation of panels to avoid noise transmission.

ARCHITECTURAL

Special Detail Doors

These photographic illustrations are typical examples of the many "custom-made" decorative doors we make according to architect's design. Many doors of this type are made up from ornamental detail mouldings which we consider as Standard — some of which are shown on page 11.

**HARDWOOD PRODUCTS
CORPORATION**



Veneer

DOOR FACING

Data

The wood species and veneer thicknesses briefly described below are those that are most popular for door face veneers. All are readily available from us. In addition, we can furnish other veneers such as Butternut, Cherry and the highly figured and decorative cabinet woods not described herein. Standard thicknesses are before sanding.

HARDWOOD PRODUCTS CORPORATION 16c
Ha



*Solid Core
Flush Doors*

PINE

The Pines most commonly used in door manufacture are Northern White Pine, Sugar Pine and Ponderosa Pine. Of these, only Northern White and Sugar Pine can be botanically numbered among the true White Pines. Ponderosa Pine is the lightest in color of the Yellow Pines and has very similar texture to the true White Pine. Over the last quarter-century, it has been common understanding in the wood working and lumber trades that Ponderosa Pine is acceptable against specifications calling simply for White Pine. Accordingly, misunderstandings can be avoided by specifying the White Pine species desired in those cases where Ponderosa Pine may not be acceptable. Both Sugar Pine and Ponderosa Pine are available only in 1/8" and 1/4" Sawn veneers. Northern White Pine is available only in 1/20" Rotary Cut and 1/20" Sliced Veneer.

OAK

The Oaks vary more widely in figure and coloring than most other species. The terms "Red Oak" and "White Oak" refer to different kinds of trees rather than being truly descriptive of wood color. White Oaks are white or grayish-brown in color, occasionally with a reddish tinge, while the Red Oaks usually show a reddish tinge, although occasionally they very closely resemble the White Oaks in color. Where evenness of color is desired, red oak is a wiser choice.

RED OAK Plain Red Oak, is available in 1/20" Rotary Cut, 1/24" Sliced, and 1/8" and 1/4" plain Sawn veneers. 1/28" Rift Oak is also available in limited quantities.

WHITE OAK The White Oaks show a close similarity in figure to the Red Oaks. White Oak is available in 1/24" Plain Sliced and in 1/28" Comb grain; the latter having a fine, straight line figure.

WALNUT

American Walnut is usually sliced so as to obtain its highly figured grain in veneers. Both Plain Walnut and Quarter Sliced (straight grain) Walnut are available in 1/28" Sliced veneers

HARD MAPLE

The wood of the Hard Maple is heavy, hard and strong with a uniform texture, and offers excellent resistance to abrasion or indentation. The sapwood of the Hard Maple is white with a slightly reddish-brown tinge, while the heartwood is a light reddish-brown. The Natural Hard Maple exhibits both of these colors, while Selected White Maple is the sapwood only. Both Natural Hard Maple and Selected White Hard Maple are available in 1/20" Rotary Cut and Natural Hard Maple in 1/8" and 1/4" Sawn veneers.

GUM

Both Natural and Selected Gumwood veneers available come from the Red Gum tree. Natural Gumwood veneers are especially desirable for doors which are to be paint finished as their fine grain is readily concealed.

NATURAL GUM 1. Natural gum contains both the reddish-brown heartwood as well as sapwood which varies in color from an off-white, through yellowish-cream, to reddish-brown. Natural Gum is available in 1/20" Rotary Cut, 1/24" Sliced and 1/8" and 1/4" Sawn veneers.

SELECTED GUM 2. Selected Red Gum increases the cost somewhat over the natural wood, and should be recommended only when a natural finish is to be used and the selected color is essential for decorative purposes. It is available in 1/20" Rotary Cut, and 1/4" and 1/8" Sawn veneers.

BIRCH

Nearly all Birch veneer used in quality doors comes from the Yellow Birch tree. Yellow Birch enjoys a wide and deserved, popularity because of its beauty, strength, and even texture. As used for door veneer, there are three classifications of Yellow Birch:

NATURAL BIRCH 1. Natural (sometimes referred to as Unselected) Birch means a mixture of heartwood (Red) and sapwood (White). Natural Birch is selected for quality but not for color. It is available in 1/24" Rotary Cut veneers, 1/28" Sliced veneers, and 1/8" and 1/4" Sawn veneers.

RED BIRCH 2. Red Birch is the heartwood of the Yellow Birch tree, and is selected for both color and quality. Selected Red Birch is available in 1/24" Rotary Cut and 1/28" Sliced veneers.

WHITE BIRCH 3. White Birch is the sapwood of the Yellow Birch tree, and is selected for both color and quality. Selected White Birch is available in 1/24" Rotary Cut and 1/28" Sliced veneers.

The specification "Selected for Color" increases the cost somewhat over Unselected or Natural Birch, and accordingly is recommended only when a light, natural finish is to be used and the selected color is essential for decorative purposes. The pleasing variety of color and figure of Natural Birch enjoys wide popularity and acceptance.

MAHOGANY

The Mahoganies, offer both beauty of figure and excellent structural characteristics.

AFRICAN MAHOGANY 1. Plain African Mahogany with its fine, even figure, is available in 1/28" Sliced, 1/8" and 1/4" Sawn veneers. African Ribbon Stripe Mahogany is available in 1/28" Sliced veneer.

PLAIN PHILIPPINE MAHOGANY 2. Plain Philippine Mahogany is available in 1/28" Sliced, and 1/8" and 1/4" Sawn veneers. Philippine Mahogany is not a true Mahogany, botanically; its correct name is Lauan. It is available in Red Tanguile which approaches very closely the color of African Mahogany, and as White Lauan which is a light tan shade. Both are very similar to the true Mahoganies in other characteristics.

SECTIONS • SOLID FLUSH VENEERED DOORS • 1 3/4" THICK

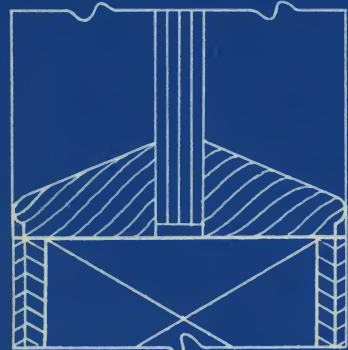
1/8" FACES • 1/12" CROSS-BANDING 1/20" FACES • 1/12" CROSS-BANDING



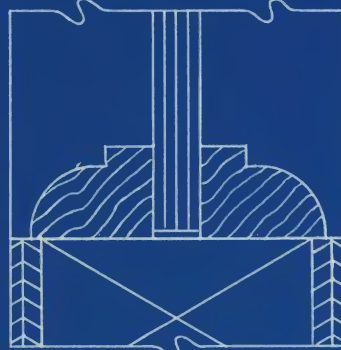
MASTER-FLUSH DOORS



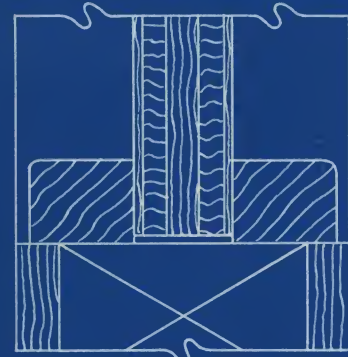
STANDARD-FLUSH DOORS



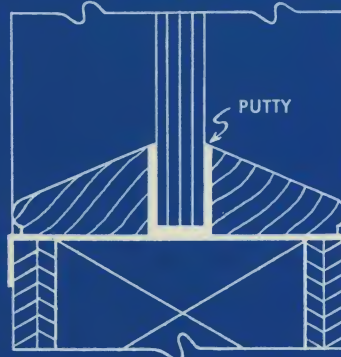
INTERIOR GLASS LIGHT CONSTRUCTION



INTERIOR GLASS LIGHT CONSTRUCTION



INTERIOR PANEL CONSTRUCTION



EXTERIOR GLASS LIGHT CONSTRUCTION

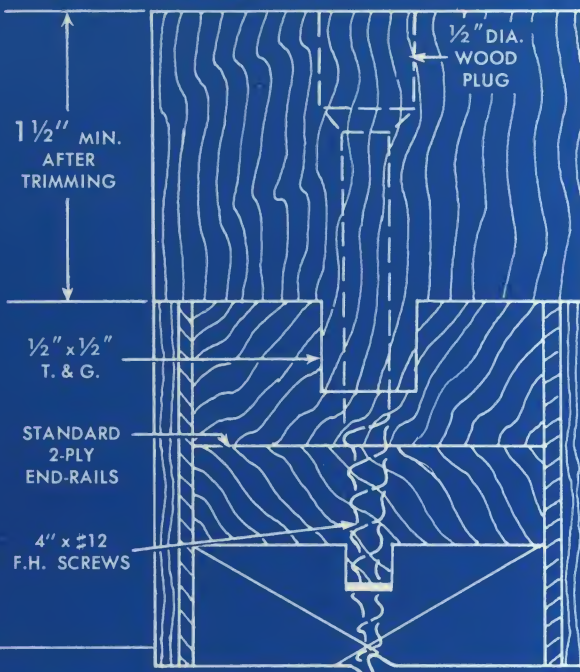


INTERIOR DIVIDED LIGHT DETAIL

FULL SCALE

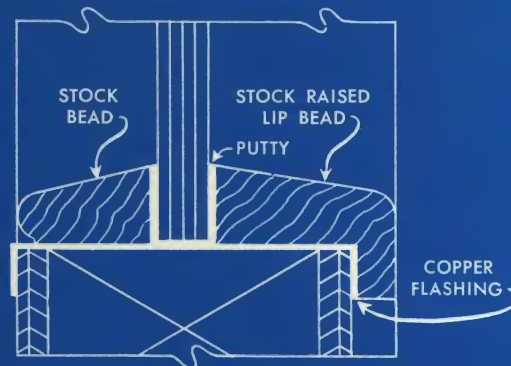
Solid Core Door SECTIONALS

SECTION • EXPOSED EDGE STRIP • TOP AND BOTTOM, MASTER FLUSH EXTERIOR DOORS



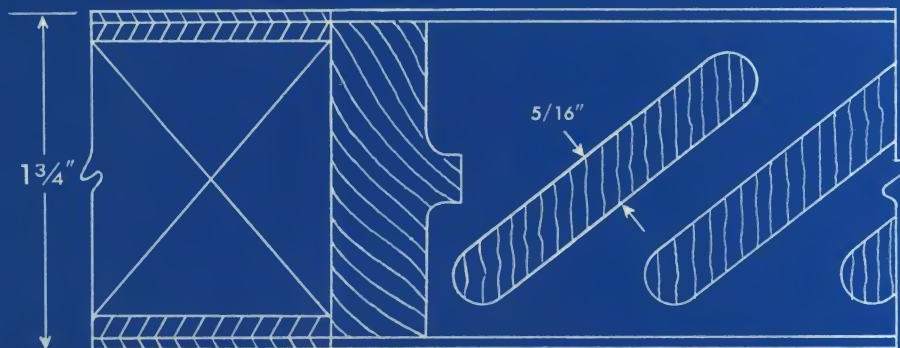
Hardwood Products Corporation highly recommends this top and bottom flush edge strip on doors for exterior use, as a protection from inclement weather. Screws are located 3" from edges of doors and approximately 8" on center to insure a tight glued-up strip. Screws are countersunk and holes wood plugged.

EXTERIOR GLASS LIGHT CONSTRUCTION



SECTION • WOOD LOUVRE CONSTRUCTION

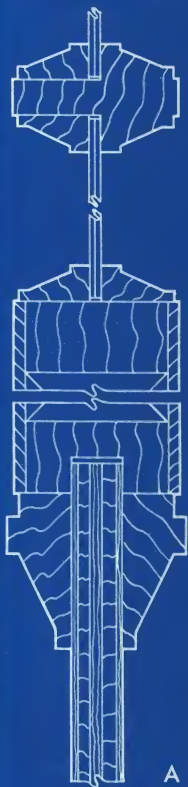
1/20" FACES • 1/12" CROSS-BANDING



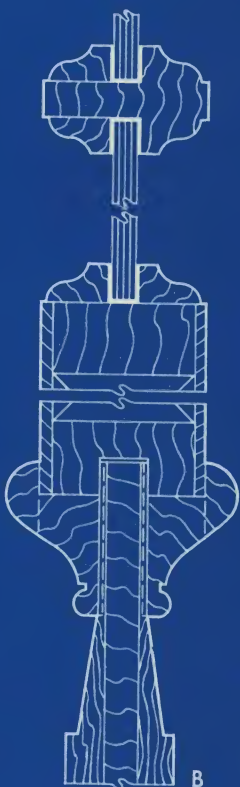
Suggested designs for Flat Panel, Raised Panel,
Divided Lights and Raised Moulding Doors

This group of panel and moulding designs represents those which we consider as Standard Stock Designs. Many doors of the type photographically illustrated on page 8 were made up from these standard patterns. When possible, and for purposes of economy we suggest using these Standard designs in your detailing.

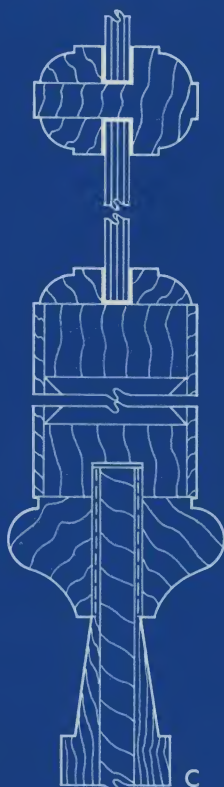
HALF SCALE



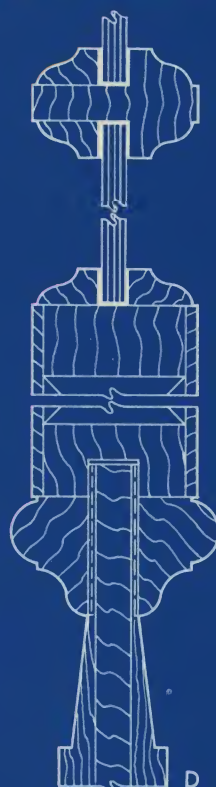
A



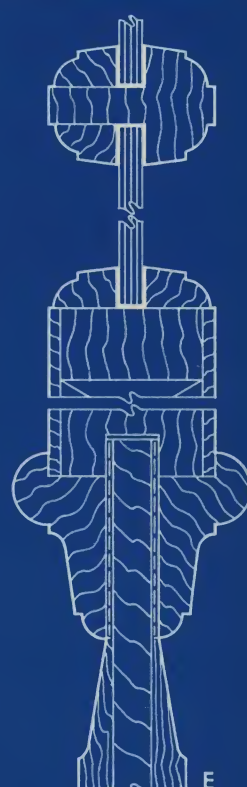
B



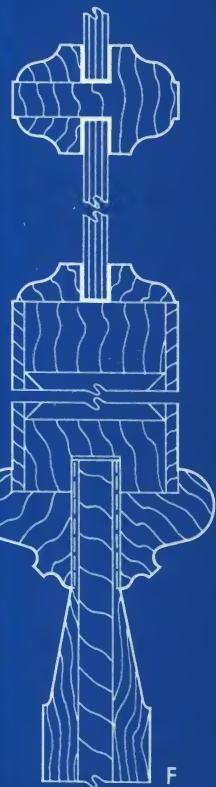
C



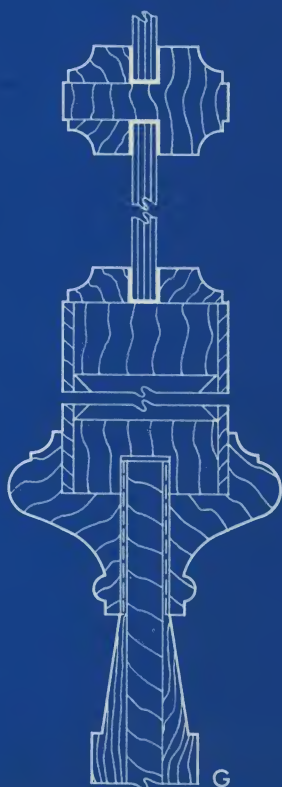
D



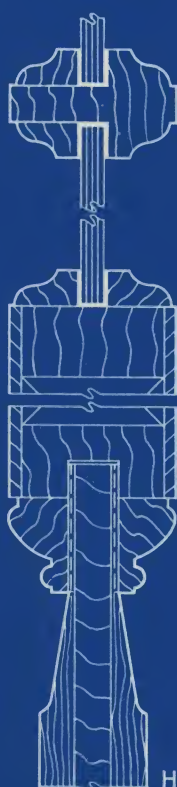
E



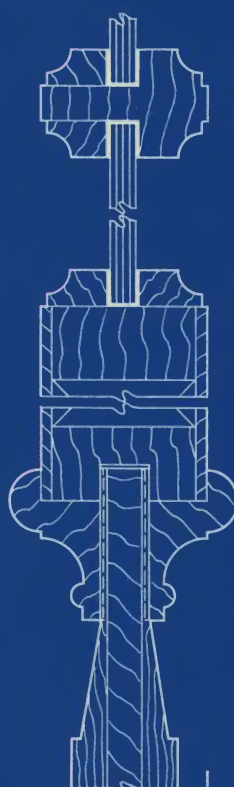
F



G



H



I

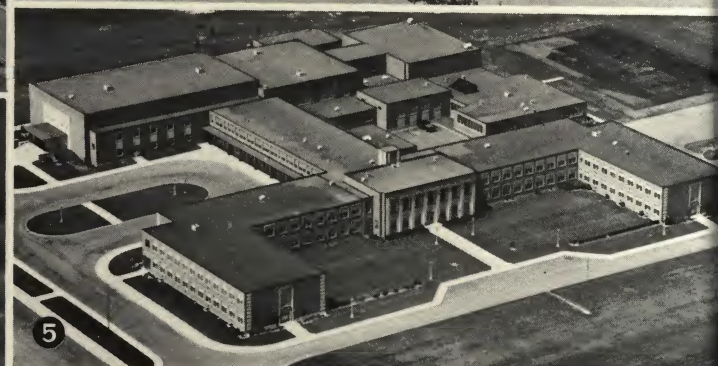
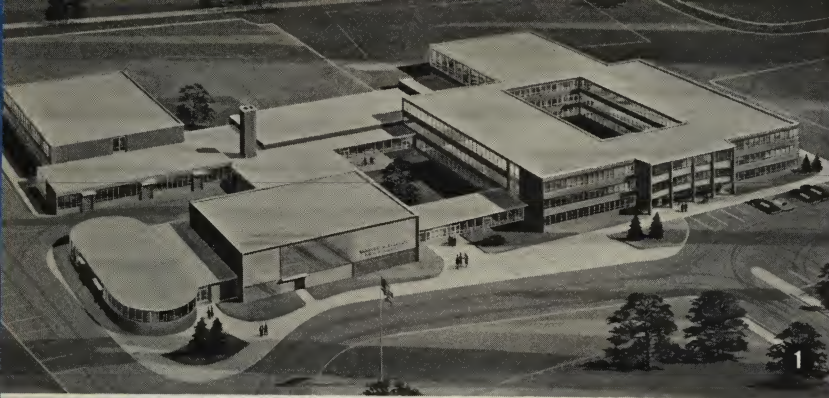


J

**HARDWOOD PRODUCTS
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16c
Ha

Panel and Moulding
SECTIONALS



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- 3 — American Fore Insurance Group Building—Chicago
Architect: Loeb, Schlossman & Bennett—Chicago

- 4 — David S. Ingalls Hockey Rink—Yale University, New Haven, Conn.
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